

# Global Flywheel Energy Storage Devices Market Growth 2026-2032

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## Abstracts

The global Flywheel Energy Storage Devices market size is predicted to grow from US\$ 230 million in 2025 to US\$ 339 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Flywheel energy storage devices are mechanical systems that store electricity as rotational kinetic energy by using a motor to accelerate a rotor (flywheel) to high speed and later converting that stored motion back into electricity by operating the same machine as a generator. To reduce losses, the rotor is typically supported by low-friction bearings (often magnetic or advanced mechanical designs) and housed in a sealed low-pressure or vacuum enclosure, while power electronics manage fast charging and discharging with sub-second response. Flywheels excel where high power, rapid response, and very frequent cycling are needed—such as grid frequency regulation, power-quality and UPS ride-through, and regenerative braking energy capture—but they generally provide shorter-duration energy storage than batteries and require robust containment and safety engineering because of the high rotational speeds involved. Carbon-composite flywheel rotors cost about \$1,200 per kWh of stored energy, while high-strength steel rotors designed for very high cycle life cost roughly \$1,800–\$4,000 per kWh depending on the steel grade and strength.

Upstream, flywheel energy storage devices draw on suppliers of high-strength rotor materials (alloy steels or carbon-fiber composites and resins), precision machining or filament-winding and curing services, hubs/shafts and high-speed fasteners, bearing systems (mechanical or magnetic) plus sensors and control electronics, vacuum vessels and seals, motor-generator machines, power electronics (rectifiers/inverters, DC-link capacitors, protection devices), thermal management hardware, and high-integrity containment and certification/testing services. Downstream, flywheel OEMs

and system integrators package single units or modular banks with controls and monitoring software and deploy them for grid ancillary services (frequency regulation and fast reserve), power quality and UPS ride-through in data centers and industrial facilities, rail and industrial regenerative-braking capture, microgrids and renewable smoothing, and other critical infrastructure, then provide commissioning, operations support, preventative maintenance, and end-of-life refurbishment or recycling of metals, composites, magnets, and electronics.

United States market for Flywheel Energy Storage Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Flywheel Energy Storage Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Flywheel Energy Storage Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Flywheel Energy Storage Devices players cover Piller, Calnetix Technologies, ABB, POWERTHRU, PUNCH Flybrid, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Flywheel Energy Storage Devices Industry Forecast" looks at past sales and reviews total world Flywheel Energy Storage Devices sales in 2025, providing a comprehensive analysis by region and market sector of projected Flywheel Energy Storage Devices sales for 2026 through 2032. With Flywheel Energy Storage Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Flywheel Energy Storage Devices industry.

This Insight Report provides a comprehensive analysis of the global Flywheel Energy Storage Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Flywheel Energy Storage Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Flywheel Energy Storage Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Flywheel Energy Storage Devices and breaks down the forecast by Rated Energy Storage Capacity, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Flywheel Energy Storage Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Flywheel Energy Storage Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Rated Energy Storage Capacity:

500 MJ and Below

500-1500 MJ

1500 MJ and Above

Segmentation by Rotor Type:

Steel/Metal Rotor Flywheels

Composite Rotor Flywheels

Segmentation by Application:

Power Grid

Rail Transit

UPS Uninterruptible Power Supply

Others

This report also splits the market by region:

## Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Piller

Calnetix Technologies

ABB

POWERTHRU

PUNCH Flybrid

Revterra

Amber Kinetic

Shandong Tianrui Heavy Industry

Stornetic

VYCON

Beijing Qifeng Energy Technology

Huachi Dongneng

Kinetic Traction Systems

## BC New Energy

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Flywheel Energy Storage Devices market?

What factors are driving Flywheel Energy Storage Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Flywheel Energy Storage Devices market opportunities vary by end market size?

How does Flywheel Energy Storage Devices break out by Rated Energy Storage Capacity, by Application?

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